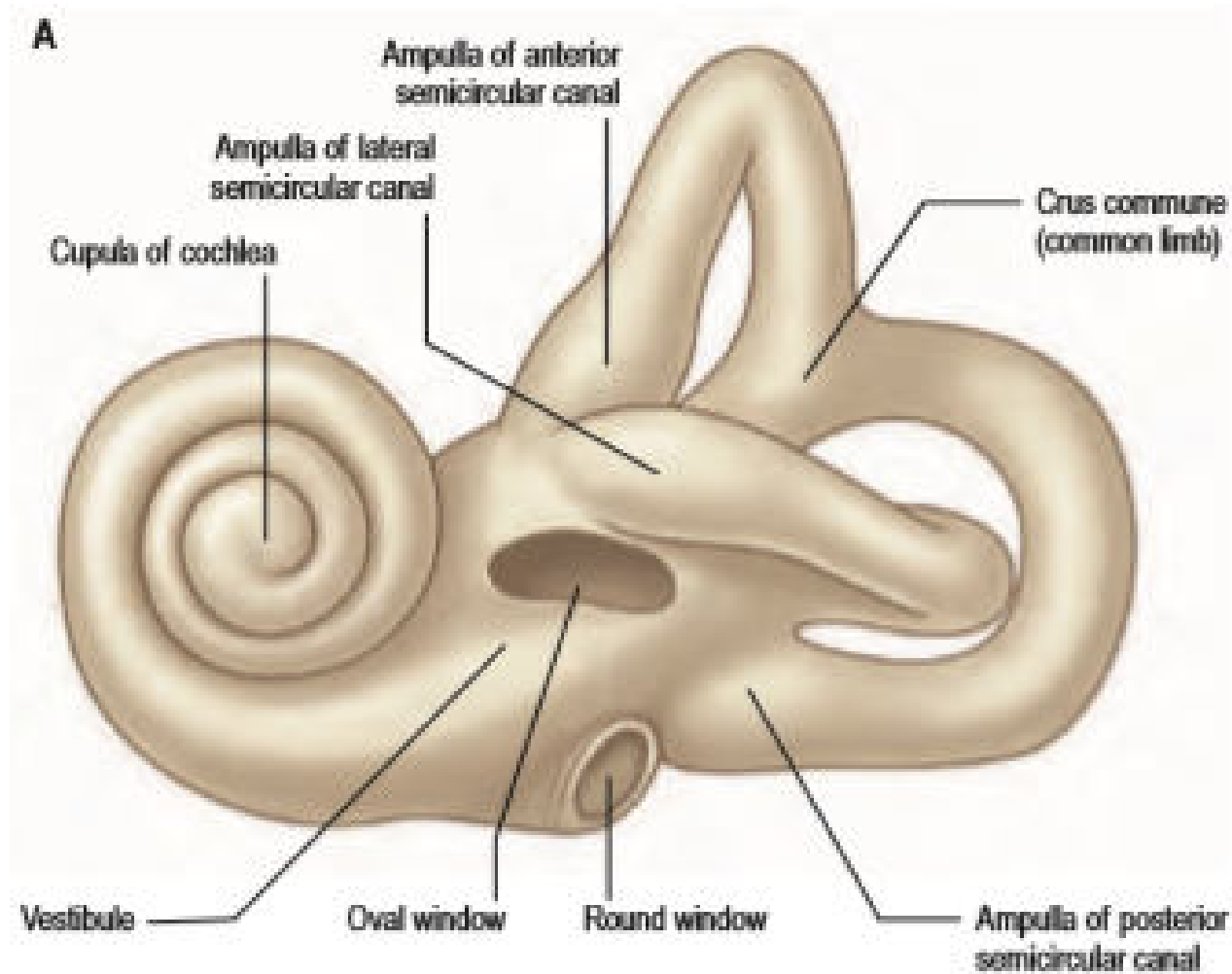
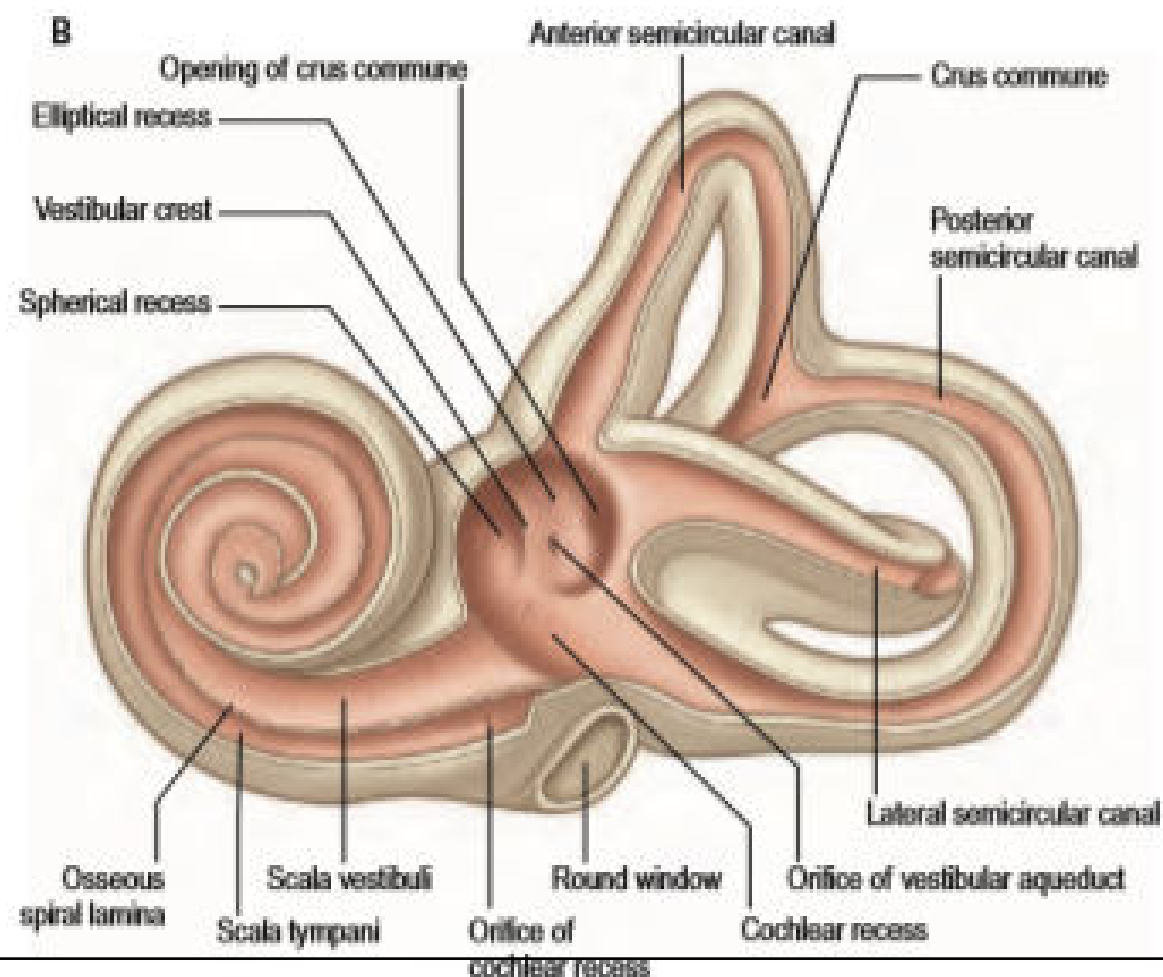


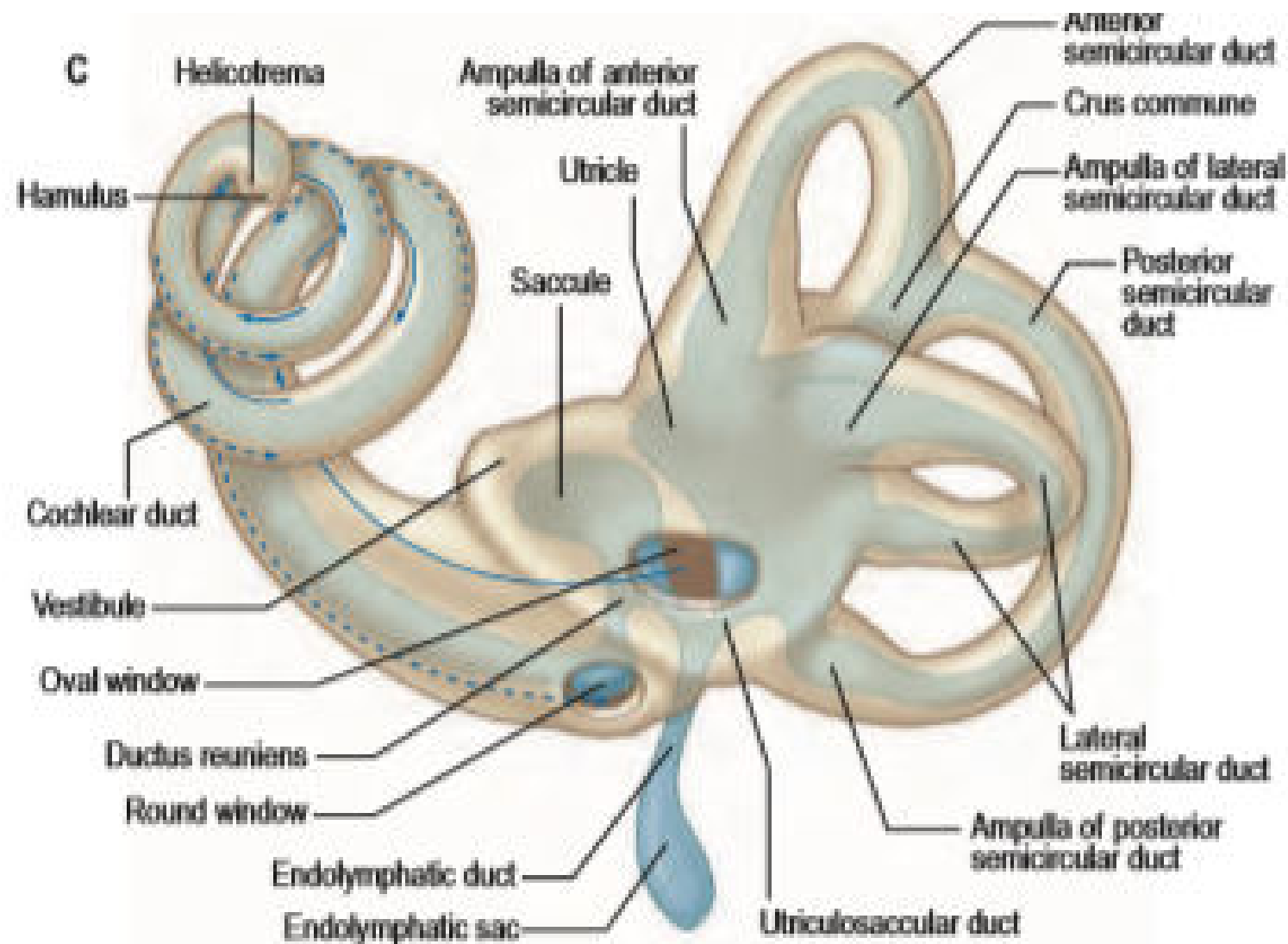
The left bony labyrinth(Lateral aspect)



The left bony labyrinth (Interior Aspect)



The membranous labyrinth (blue) projected on to the bony labyrinth



The fundus of the left internal acoustic meatus

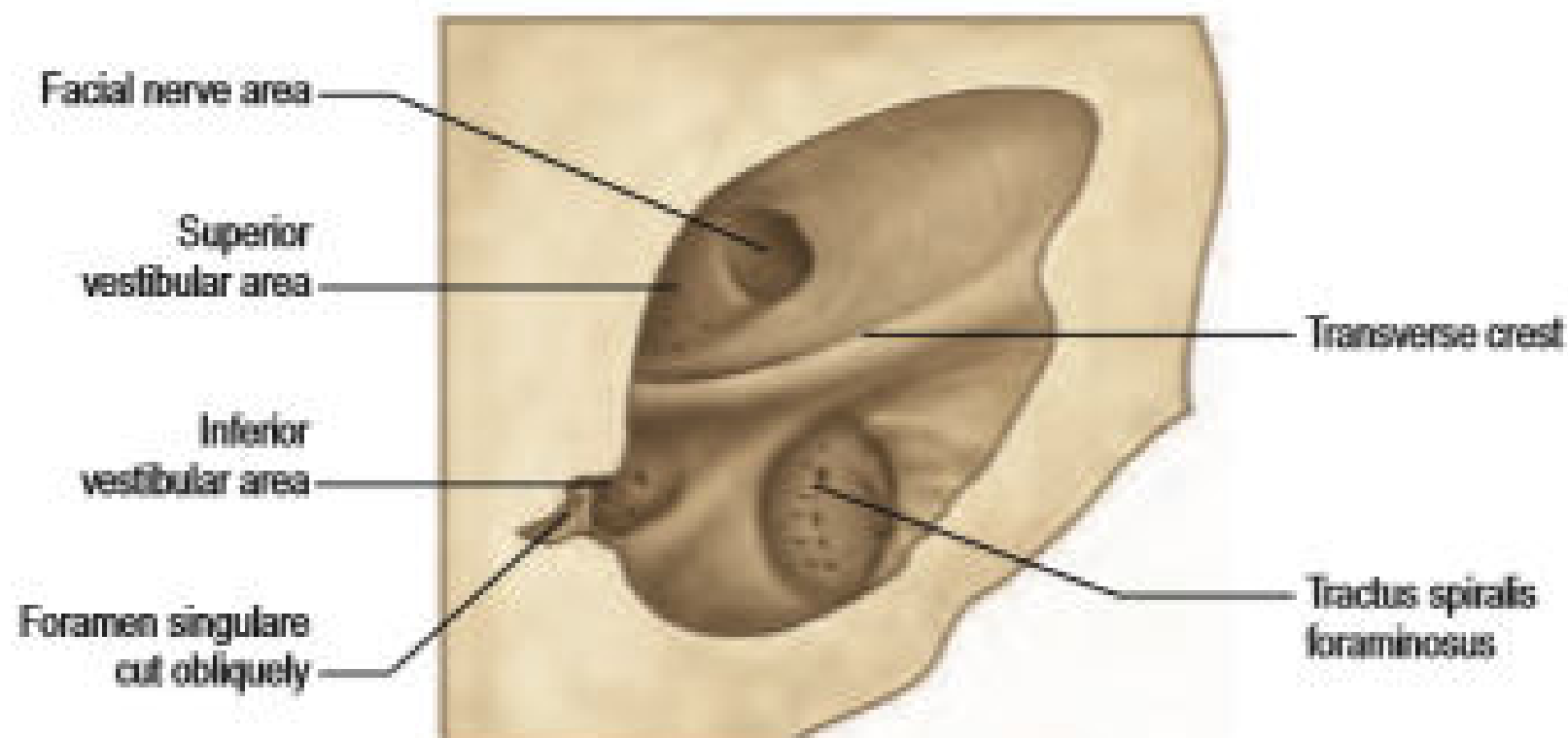
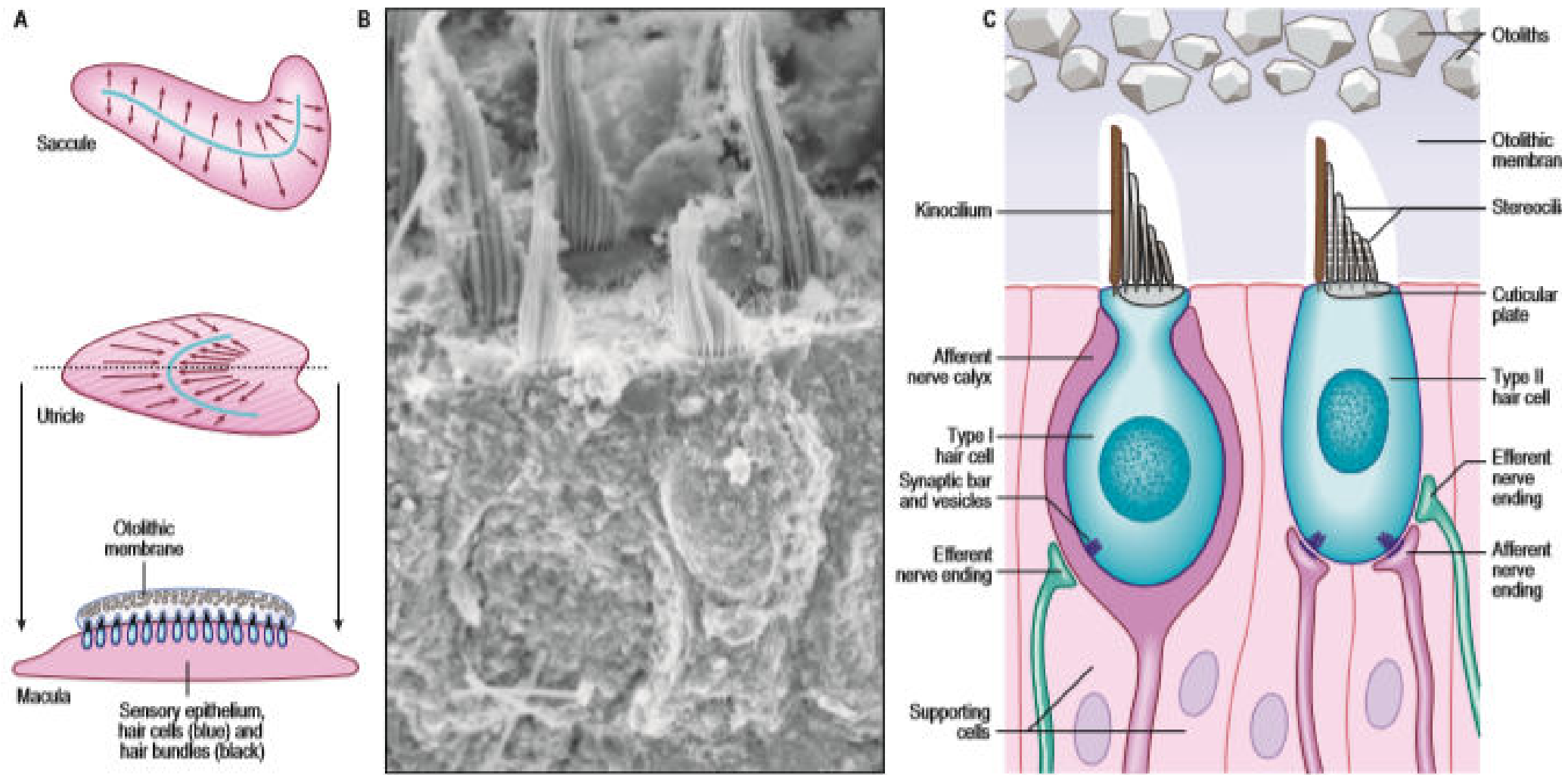


Fig. 38.3 The fundus of the left internal acoustic meatus, exposed by a section through the petrous part of the left temporal bone nearly parallel to the line of its superior border.

Saccular and Utricular maculae



A section of an ampullary crest

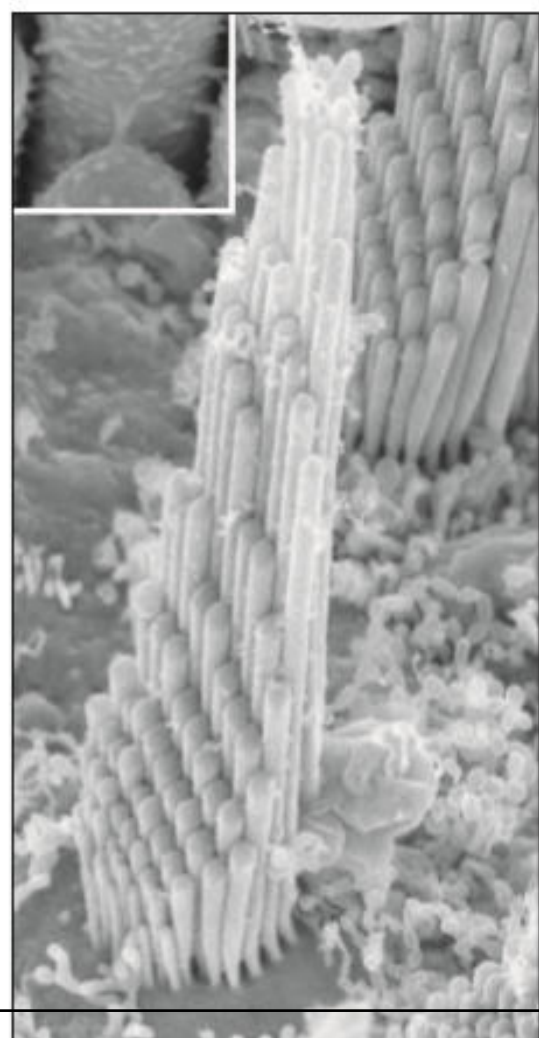
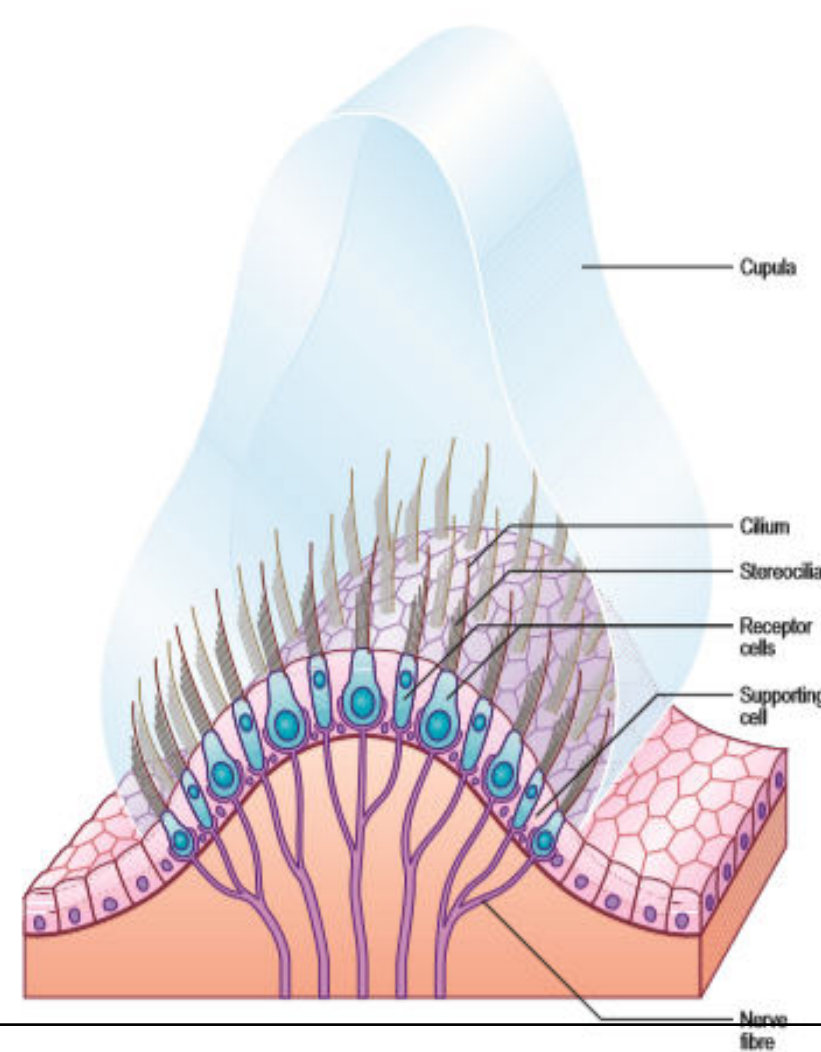
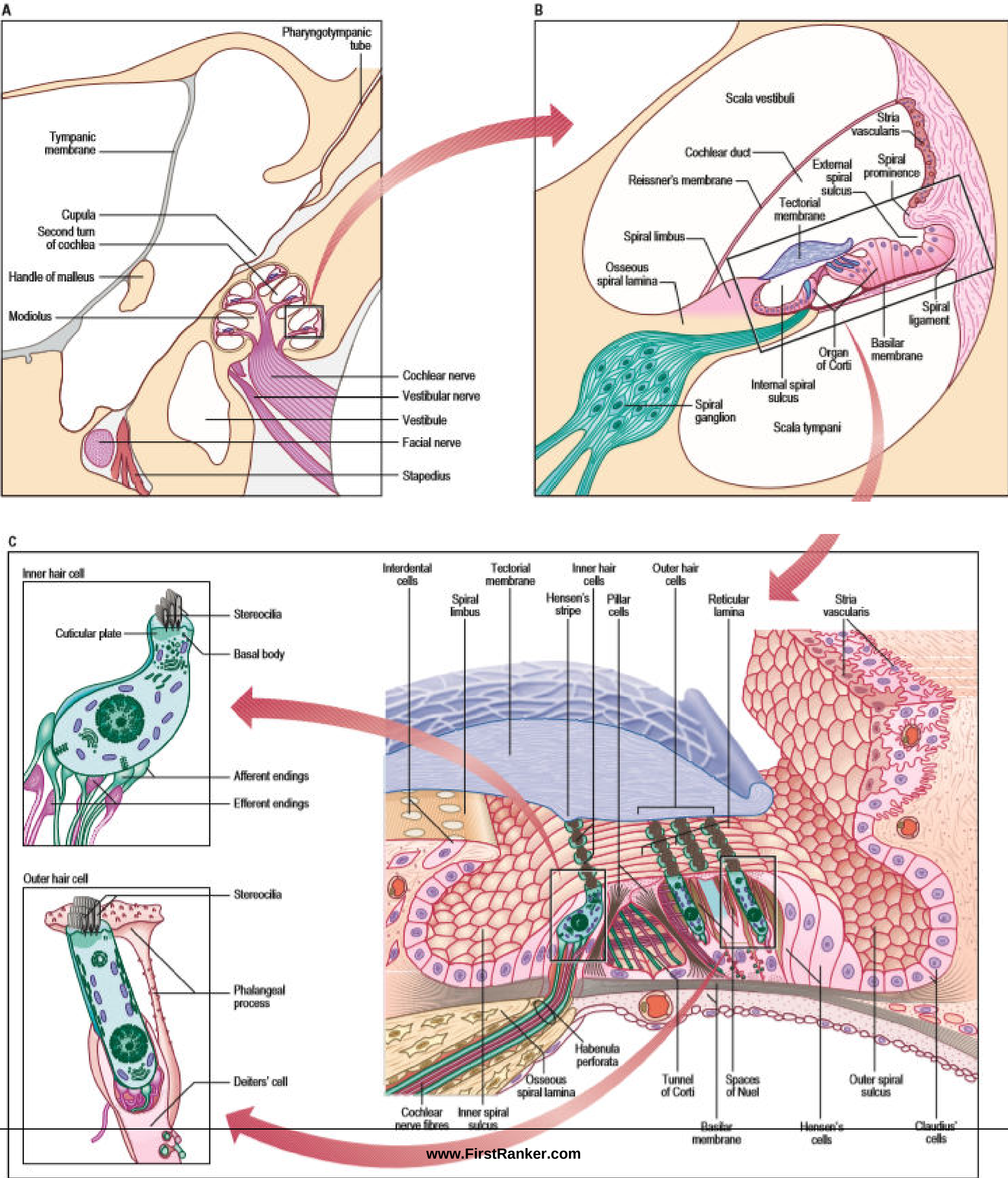


Fig. 38.7 A scanning electron micrograph of a stereociliary bundle from the utricle (guinea pig). The stereocilia are arranged in rows of increasing height towards the tallest element, the kinocilium. Deflection in the direction of the kinocilium results in depolarization of the hair cell. The inset shows a tip link connecting a short stereocilium tip to the tall stereocilium side behind. (Courtesy of DN Furness, The Institute of Science and Technology in Medicine, School of Life Sciences, Keele University.)

Organ of Corti



A simplified view of the innervation of the organ of Corti

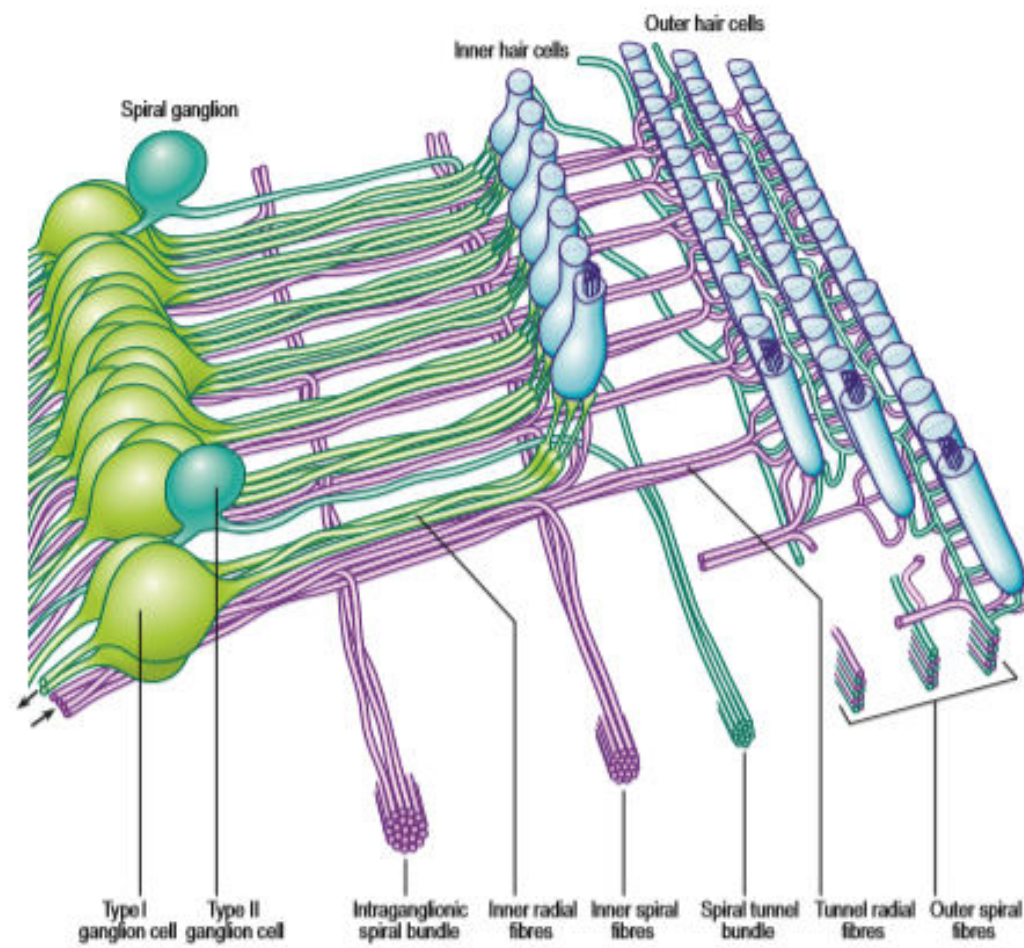
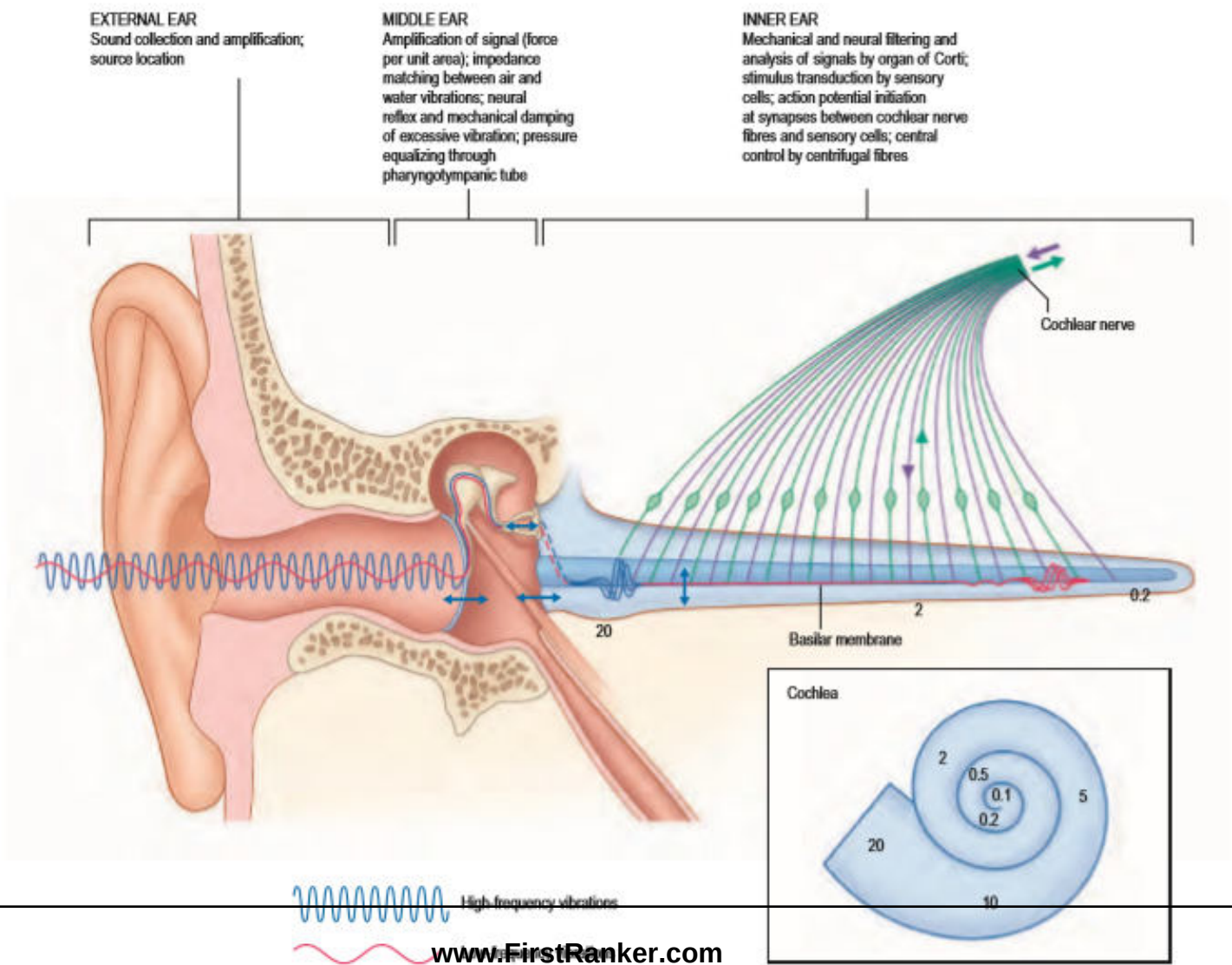


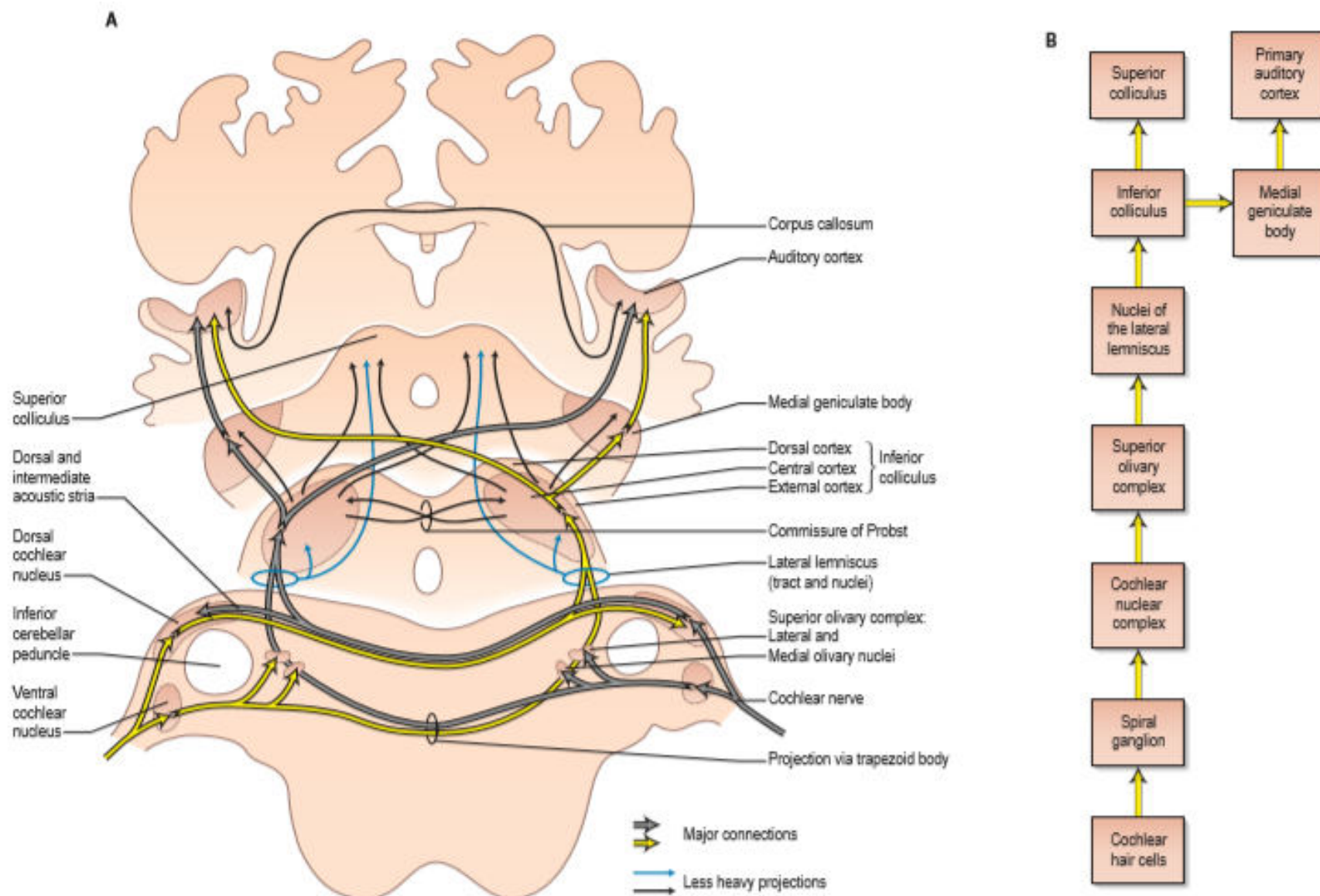
Fig. 38.17 A simplified view of the innervation of the organ of Corti. Note the contrast between the convergent afferent innervation of the inner hair cells (approximately 10 fibres to each cell) and the divergent supply of the outer hair cells (1 afferent fibre to 10 cells).

The principal activities of the peripheral auditory apparatus



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Vestibulocochlear Nerve



MCQs

Question:- Which of the following is the correct representation of organ of Corti?

- Zona arcuata
- Cuticular plate
- Zona pectinata
- Phalangeal process

Question:- Which of the following is the correct regarding the excitation of different regions of the cochlea by different sound frequencies from its base to apex?

- a. Highest to lowest frequency
- b. Lowest to highest frequency
- c. Any frequency at any part
- d. Middle, lowest and highest



THANK YOU